



## WHAT IS CLAIMED IS:

- 1. An environmentally degradable melt spun composition comprising:
- a PLA polymer or copolymer; and
- a polyhydroxyalkanoate copolymer comprising at least two randomly repeating monomer units

wherein a first monomer unit has structure (I)

$$\begin{bmatrix} R^1 & O \\ I & \parallel \\ -O-CH-(CH_2)_n-C- \end{bmatrix}$$
 (I)

where R<sup>1</sup> is H, or C1 or C2 alkyl, and n is 1 or 2; and wherein a second monomer unit has structure (II)

$$\begin{bmatrix} R^2 & O \\ I & || \\ -O\text{-CH-CH}_2\text{-C-} \end{bmatrix}$$
 (II)

where R<sup>2</sup> is a C3-C19 alkyl or C3-C19 alkenyl,

or the second monomer unit has structure (III)

$$\begin{bmatrix} O \\ \parallel \\ -O-(CH_2)_m-C- \end{bmatrix}$$
 (III)

where m is from 2 to 9 wherein the composition is in the form of a fiber.





2. The composition of Claim 1 wherein the polyhydroxyalkanoate copolymer comprises a third randomly repeating monomer having structure (IV):

$$\begin{bmatrix} R^5 & O \\ | & | \\ -O\text{-CH-(CH}_2)_s\text{-C-} \end{bmatrix}$$
 (IV)

where R<sup>5</sup> is H, or C1-C19 alkyl or alkenyl, and s is 1 or 2, with the proviso that the third monomer is not the same as the first or second monomer.

- 3. The composition of Claim 1 further comprising a second polyhydroxyalkanoate polymer or copolymer.
- 4. The composition of Claim 1 wherein the polyhydroxyalkanoate copolymer is present in an amount of from 10% to 90% by weight of the fiber.
- 5. The composition of Claim 1 wherein the PLA polymer or copolymer is present in an amount of from 10% to 90% by weight of the fiber.
- 6. The composition of Claim 1 comprising a PLA polymer and wherein the PLA polymer is crystallizable polylactic acid having a melting temperature of from 160°C to 175°Cs.
- 7. An environmentally degradable multicomponent fiber wherein at least one component has the composition of Claim 1.
- 8. An environmentally degradable multicomponent fiber wherein a first component is the polyhydroxyalkanoate copolymer of Claim 1, and a second component is the PLA polymer or copolymer of Claim 1.
- 9. The environmentally degradable multicomponent fiber of Claim 8 wherein the fiber has two components having a sheath-core configuration wherein the first component is the sheath and the second component is the core.





- 10. The environmentally degradable multicomponent fiber of Claim 8 wherein the fiber has two components having a sheath-core configuration wherein the first component is the core and the second component is the sheath.
- 11. An environmentally degradable fiber produced by melt spinning a composition comprising a polyhydroxyalkanoate copolymer and a PLA polymer or copolymer.
- 12. A nonwoven web comprising the fiber of Claim 1.
- 13. A nonwoven web comprising the multicomponent fiber of Claim 7.
- 14. A nonwoven web comprising the multicomponent fiber of Claim 8.
- 15. A disposable article comprising the nonwoven web of Claim 12.
- 16. A disposable article comprising the nonwoven web of Claim 13.
- 17. An environmentally degradable composition comprising a 3-hydroxybutyrate/3-hydroxyhexanoate copolymer and a PLA polymer or copolymer wherein the composition is in the form of a fiber.
- 18. An environmentally degradable bicomponent fiber comprising a sheath-core configuration wherein the core is a 3-hydroxybutyrate/3-hydroxyhexanoate copolymer and the sheath is a PLA polymer or copolymer.
- 19. A nonwoven web comprising the fiber of Claim 17.
- 20. A disposable article comprising the nonwoven web of Claim 19.